

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1 - 26. (canceled)

27. (canceled)

28. (canceled)

29. (currently amended) The device of claim 26 63 wherein the metal chlorite is selected from the group consisting of alkali metal chlorites and alkaline earth metal chlorites.

30. (currently amended) The device of claim 26 63 wherein the metal chlorite is sodium chlorite.

31. (canceled)

32 - 37. (canceled)

38. (currently amended) The device of claim 26 63 wherein the synthetic molecular sieves are selected from the group consisting of synthetic zeolite Y, dealuminated Y, mordenite and ZSM-5.

39. (currently amended) The device of claim 26 63 wherein the acid forming component produces a pH below about 5 when mixed with water.

40. (currently amended) The device of claim 26 63 wherein the aqueous solution of chlorine dioxide has a pH from about 2 to about 10.

41. (canceled)

42. (canceled)

43. (canceled)

44. (canceled)

45. (canceled)

46. (canceled)

47. (canceled)

48. (canceled)

49. (currently amended) The device of claim 26 63 wherein the mixture is present in the form of tablets.

50. (currently amended) The device of claim 26 63 wherein the mixture is present in the form of powders.

51. (currently amended) The device of claim 26 63 wherein the mixture is present in the form of granules.

52. (currently amended) The device of claim 26 63 wherein the mixture is present in the form of pellets.

53. (currently amended) The device of claim 26 63 wherein the mixture is present in the form of agglomerates.

54. (previously presented) The device of claim 53 wherein the agglomerates are present as two types:

(a) a first type at least one metal chlorite or a mixture of one or more metal chlorites and one or more non-acid forming additives; and

(b) a second type comprising at least one acid forming component or a mixture of one or more acid forming components and one or more metal chlorite-free additives.

55. (previously presented) The device of claim 54 wherein the non-acid forming additives are selected from the group consisting of silica gel desiccant, paraffin wax tableting binder, sodium and sulfate filler and mixtures thereof.

56. (previously presented) The device of claim 54 wherein the metal chlorite-free additives are selected from the group consisting of ion exchangers, tableting binders, desiccants and mixtures thereof.

57. (previously presented) The device of claim 53 wherein the agglomerates have a particle size of at least 80 microns.

58. (previously presented) The device of claim 57 wherein the agglomerates have a particle size above about 500 microns.

59. (previously presented) The device of claim 58 wherein the agglomerates have a particle size above about 1,000 microns.

60. (canceled)

61. (canceled)

62. (currently amended) The device of claim 26 63 capable of producing an aqueous solution comprising from about 0.5 ppm to about 200 ppm chlorine dioxide.

63. (previously presented) A device capable of producing an aqueous solution of chlorine dioxide when said device is placed into water, the device comprising a water-permeable membrane defining at least in part an enclosed space containing a direct mixture of at least one metal chlorite and at least one acid forming component, said acid forming component being selected from the group consisting of synthetic molecular sieves, acid ion exchange resins, acid treated clays and acid treated calcined clays, and wherein said metal chlorite and said acid forming component are such that they will react with each other in the presence of water but not in the substantial absence of water to produce chlorine dioxide, said membrane comprising a material which permits: (a) controlled passage of liquid water and/or water vapor into the enclosed space to thereby allow the metal chlorite and the acid forming component to react to produce chlorine dioxide and (b) passage of the so produced chlorine dioxide into a body of liquid water to produce the aqueous solution of chlorine dioxide.